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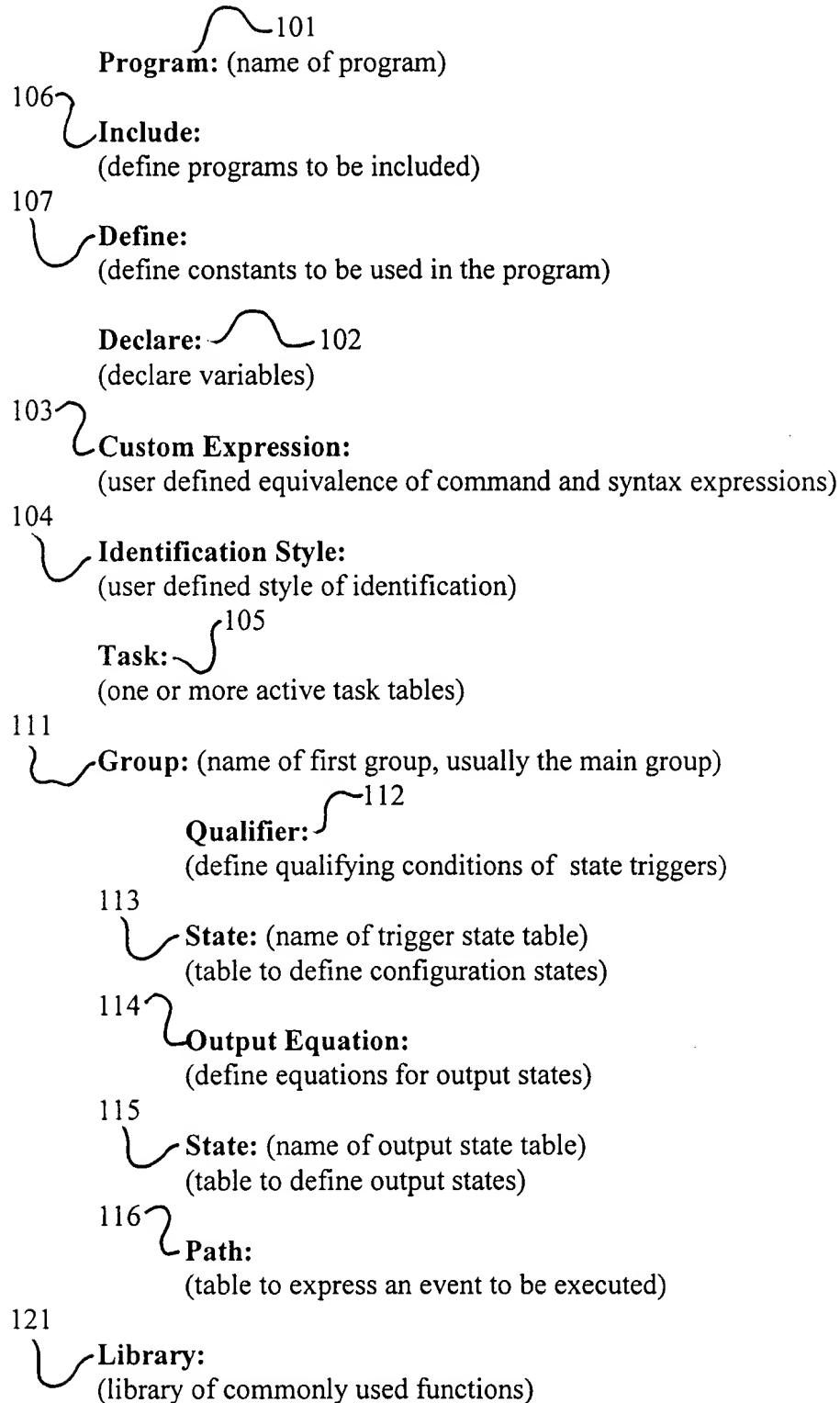


Figure 1



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201 Custom Expression: MySign 210
202 (&&) = (AND) 203 // logical AND function 204
205 (||) = (BIT OR) // bit to bit OR function
206 (;) = (//) // comment notification
207 (++) = (INC) // increment
208 (!=) = (UNEQ) // not equal
--- --- ---
{ 209 (%) = (REM) // remainder

200

Figure 2A

216
Path_DisplayA_1: RegisterA (C:&&) 00001111; Display:RegisterA
Path_DisplayA_2: A: (RegisterA & 00001111); Display:RegisterA
217

Figure 2B



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231 Identification Style: MyStyle 232
// This portion defines the style and appearance of either labels or keywords. 230
233
234 Case = Title 235 // select title case for keywords
Style = bold, italic, underline 239 240 // define identified wordings to be of
// bold, italic or underline type

Figure 3

261	262	263	264	260
Task: ActiveTask	Main	Program2	Program3	--- Program n
Task Status 1	265 Start	266 x	x	x
Task Status 2	267 Run	Start	x	x
---	--	--	--	--
Task Status m	268 Run	Run	Run	Run
Task Priority 1	273 1	3	2	6 271
Task Priority 2	274 1	2	6	3 272

Figure 4



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Task: Input	Keyboard	Mouse	GamePort
All:	Run	Run	Run
Normal:	Run	Run	x
Keyboard:	Run	x	x
Mouse:	x	Run	x
Game:	x	x	Start
Task: Ports	COM1	COM2	ParallelPort
All:	Run	Run	Run
SrMouse:	Start	x	x
ExModem:	x	Continue	x
Printer:	x	x	Continue
Task: Device	CDRom	HardDriveC	Floppy
ReadCD:	Start	Run	x
HDFullSpeed:	x	Run	x
RWFloppy:	x	Run	Run
ALL:	Run	Run	Run

//Possible task states: Start, Continue, Run, Pause, x

Figure 5A



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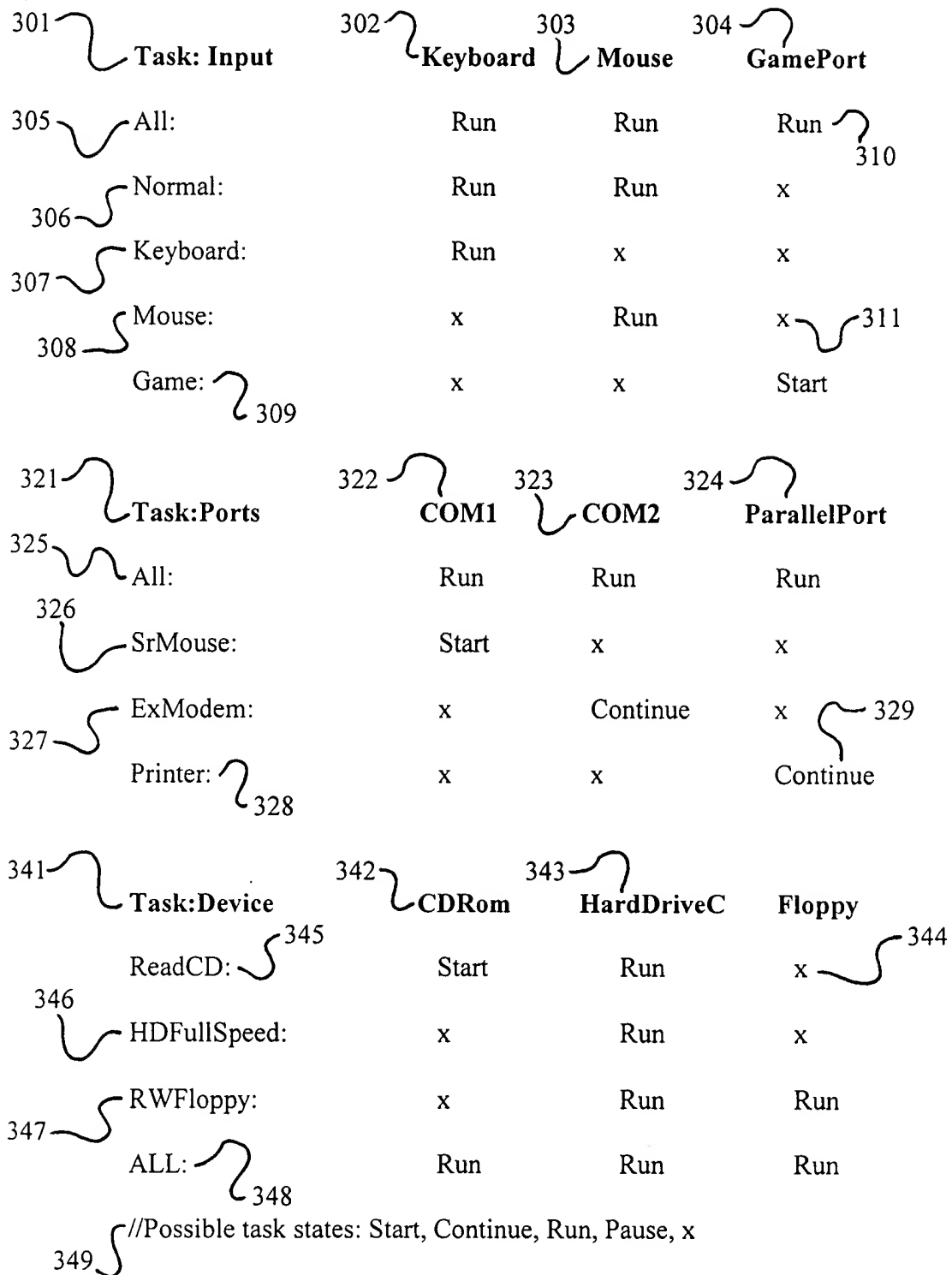


Figure 5B



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```

1  Group: Main           //WebSale program main group

2  Qualifier:
3  Catalog = Icon(1)
4  Purchase = Icon(2)
5  Service = Icon(3)
6  Home = Icon(4)
7  Quit = Icon(5)

8  State: FirstPage    Catalog      Purchase      Service      Home      Quit
9  Ready:                P_catalog    P_purchase    P_service    Start     Bye
10 Hold1:                x           x             x           Start     Bye

11 State: Response     Group:Info   Group:Order   Group:Service Group:Register P3.1
12 WindowCatalog:       Run          x             x           x         x
13 WindowPurchase:      x           Run          x           Run       x
14 WindowService:       x           x            Run         Run       x
15 Hold2:               x           x            x           x         x
16 Hold3:               x           Run          x           Run       x
17 Beep:                Continue     Continue     Continue     Continue  P+

18 Path:
19 Start:                CheckSystem; DisplayFirstPage; Beep; Hold 2; Ready; END
20 P_catalog:            WindowCatalog; BuySolicit; END
21 P_purchase:           WindowPurchase; Hold1; Hold3; GrayButton; END
22 P_service:            WindowService; BuySolicit; END
23 Bye:                 Terminate; END

24 EOG                  //Keyword to indicate end of Group

```

//Note: Line numbers are for description reference and are not required in actual
//programming. States and path equations are not required to be in sequence.

Figure 6A



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```

1  Group: Main                //WebSale program main group

2  Qualifier:
3  Catalog = Icon(1)
4  Purchase = Icon(2)
5  Service = Icon(3)
6  Home = Icon(5)
7  Quit = Icon(4)

8  State: FirstPage          Catalog      Purchase      Service      Home      Quit
9  Ready:                    P_catalog    P_purchase    P_service    Start     Bye
10 Hold1:                    x           x           x           Start     Bye

11 State: Response          Group:Info    Group:Order    Group:Service  Group:Register P3.1
12 WindowCatalog:          Run          x             x             x           x
13 WindowPurchase:         x           Run          x             Run          x
14 WindowService:          x           x             Run           Run          x
15 Hold2:                   x           x             x             x           x
16 Hold3:                   x           Run          x             Run          x
17 Beep:                    Continue     Continue     Continue     Continue    P+

18 Path:
19 Start:                    EJ_CheckSystem; EVB_DisplayFirstPage; Beep; Hold 2; Ready; END
20 P_catalog:                WindowCatalog; Lbry:BuySolicit; END
21 P_purchase:                WindowPurchase; Hold1; Hold3; Lbry:GrayButton; END
22 P_service:                WindowService; Lbry:BuySolicit; END
23 Bye:                      EJ_Terminate; END

24 Library: Local
25 BuySolicit:                EC_CheckRecord; EVC_SolicitWindow; END
26 GrayButton:                EC_CheckX; EVB_X_Is_Gray; END

27 EOG                      //Keyword to indicate end of Group

```

//Note: Line numbers are for description reference and are not required in actual programming. States and path equations are not required to be in sequence.

Figure 6B



Include:

ReadIR	//Read signal from remote control
ReadPanel	//Read signal from control panel
ReceiveFromLine	//Input data from cable line
SendToLine	//Transmit data to cable line
CompressBuffer	//Compress data before send to cable line
DecompressBuffer	//Decompress data file
CompareTime	//Compare register time with real time clock
GenIcon	//Generate Icons onto TV screen
GenWindow	//Create a new window
InputCursor	//Input and decode movement of cursor
OutputCursor	//Update cursor position on TV screen
DisplayData	//Display data to TV screen
DisplayPicture	//Display picture file to TV screen
.....	//.....
.....	//.....
ErrorMessage	//Decode error code and transmit error message
Help	//Display help screen

Figure 7



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Include:

EA_ReadIR	//Read signal from remote control
EE_ReadPanel	//Read signal from control panel
EA_ReceiveFromLine	//Input data from cable line
EA_SendToLine	//Transmit data to cable line
EC_CompressBuffer	//Compress data before send to cable line
EC-DecompressBuffer	//Decompress data file
EA_CompareTime	//Compare register time with real time clock
EJ_GenIcon	//Generate Icons onto TV screen
EJ_GenWindow	//Create a new window
EVC_InputCursor	//Input and decode movement of cursor
EVB_OutputCursor	//Update cursor position on TV screen
EVB_DisplayData	//Display data to TV screen
EVB_DisplayPicture	//Display picture file to TV screen
.....	//.....
.....	//.....
EA_ErrorMessage	//Decode error code and transmit error message
EVB_Help	//Display help screen

Figure 8



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Function

Instruction separator

Identify end of instruction

Continuation of Instruction

Identify line continuation

Unary Operators

Direction

Address

Negative

Logical negation

1's complement

Increment

Decrement

Size of

Shift Operators

Left shift

Right shift

Relational Operators

Less than

Greater than

Less or equal

Greater or equal

Logical operators

Bitwise AND

Logical AND

Exclusive OR

Bitwise OR

Logical OR

Conditional branch

Comments

Table Format Instruction

;

& (at the beginning of a line)

VALUE (address)

ADDRESS (lvalue)

-

NOT (expression)

COMPLEMENT(expression)

INCREMENT

DECREMENT

sizeof(expression)

BIT SHIFT LEFT (operand, n)

BIT SHIFT RIGHT (operand, n)

<

>

<= or =<

>= or =>

BIT AND

AND

XOR

BIT OR

OR

Expression?: [True-statement] / [False-statement]

// (to the end of the line)

Figure 9



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Input State:						
Trigger Pin:	TG1	TG2	TG3	TG4	TG5	TG6
State0:	R:Path1	R:Path2	R:Path3	R:Path4	X	X
State1:	F:Path11	R:Path2	R:Path3	R:Path4	X	X
State2:	R:Path1	F:Path11	R:Path3	R:Path4	X	X
State3:	R:Path1	R:Path2	F:Path11	R:Path4	X	X
State4:	R:Path1	R:Path2	R:Path3	F:Path11	X	X
Path:						
Path 1:	State1	Sound1	Path1			
Path 2:	State2	Sound2	Path2			
Path 3:	State3	Sound3	Path3			
Path 4:	State4	Sound4	Path4			
Path11:	State0	End				

Figure 10 Prior Art

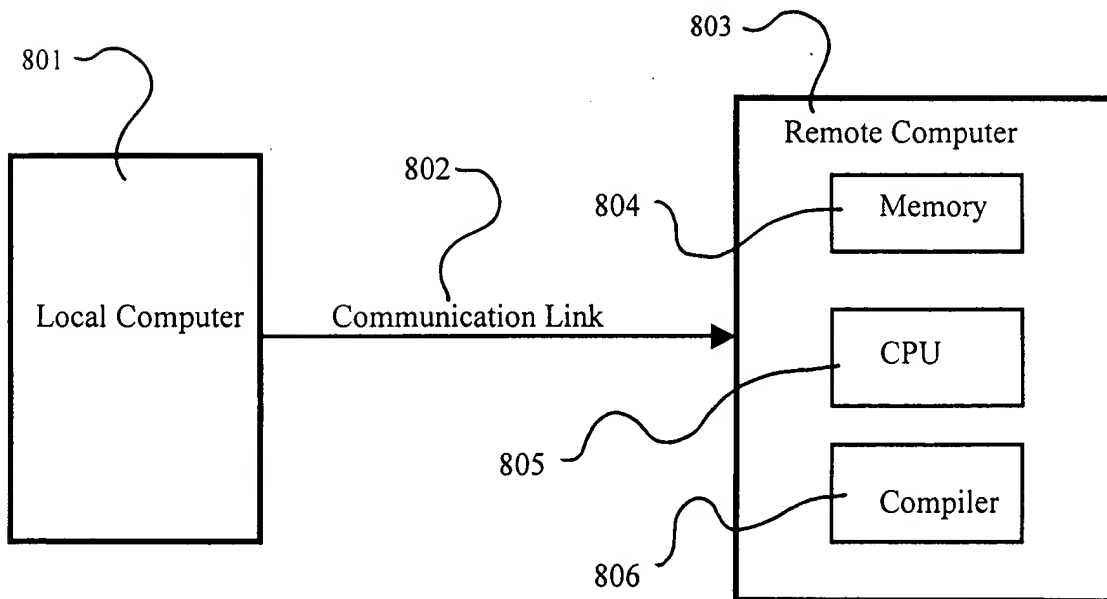


Figure 11